



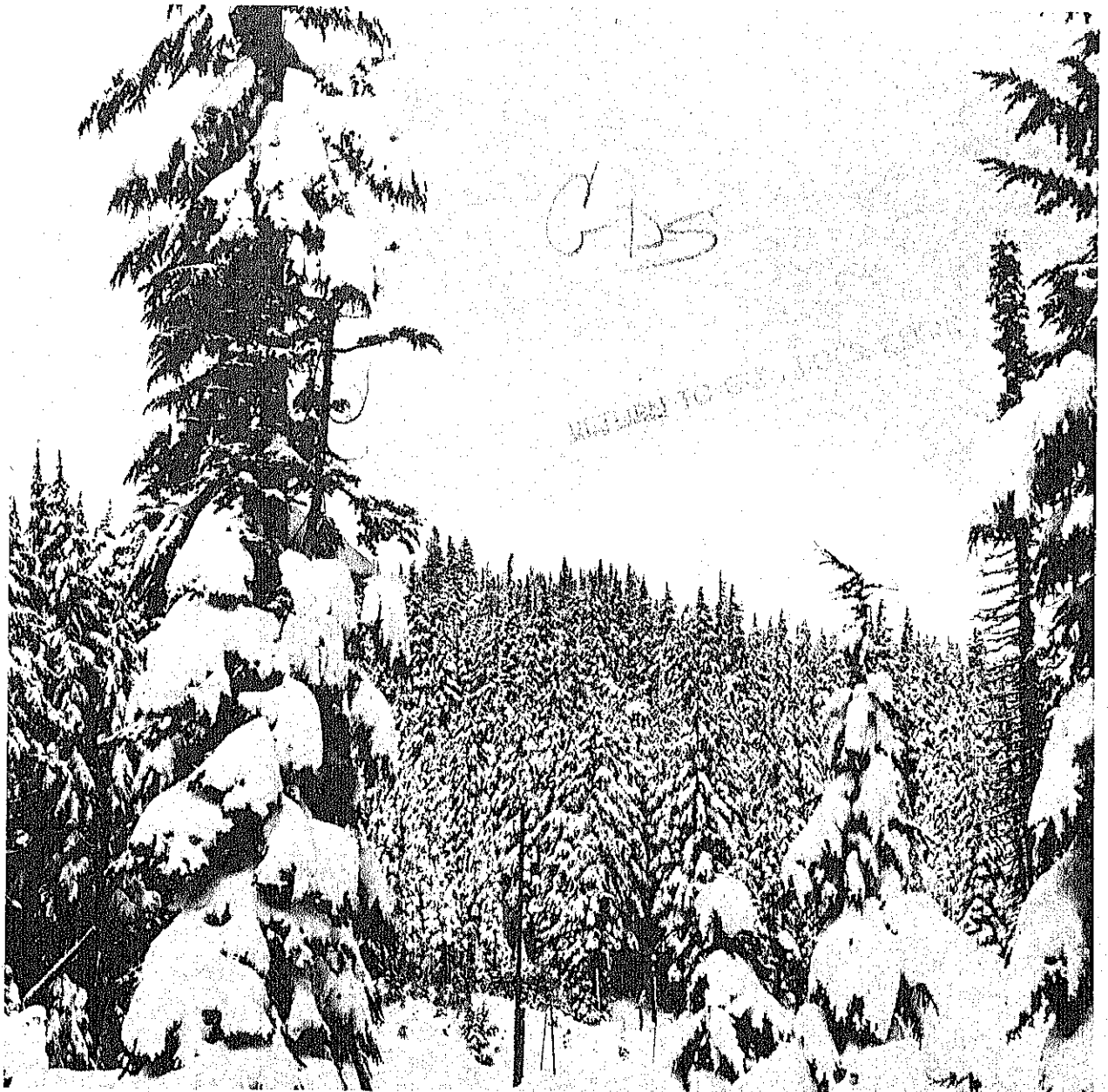
United States
Department of
Agriculture

Soil
Conservation
Service

Casper,
Wyoming



Wyoming Water Supply Outlook May 1, 1985



FOREWORD

HOW FORECASTS ARE MADE

Most of the runoff originating in the western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture, and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason forecasts are issued that reflect three future precipitation conditions - Below Normal, Average, and Above Normal. These forecasts are turned reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

FOR MORE INFORMATION

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage AK 99504
Arizona	Room 3008, Federal Bldg., 230 North First Ave., Phoenix AZ 85025
Colorado (New Mexico)	2490 West 26th Ave., Denver CO 80211
Idaho	304 North 8th Street, Room 443, Boise ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland OR 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City UT 84147
Washington	360 U.S. Court House, Spokane WA 99201
Wyoming	Federal Bldg., Room 3124, 100 East 'B' St., Casper WY 82601

In addition to state reports, a Water Supply Outlook Report for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 514, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include - Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia - The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory - Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1, Alberta, Saskatchewan, and N.W.T. - The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Wyoming Water Supply Outlook

AND

FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS

Issued by

Peter C. Myers
Chief
Soil Conservation Service
Washington, D.C.

Released by

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State Conservationist
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Casper, Wyoming

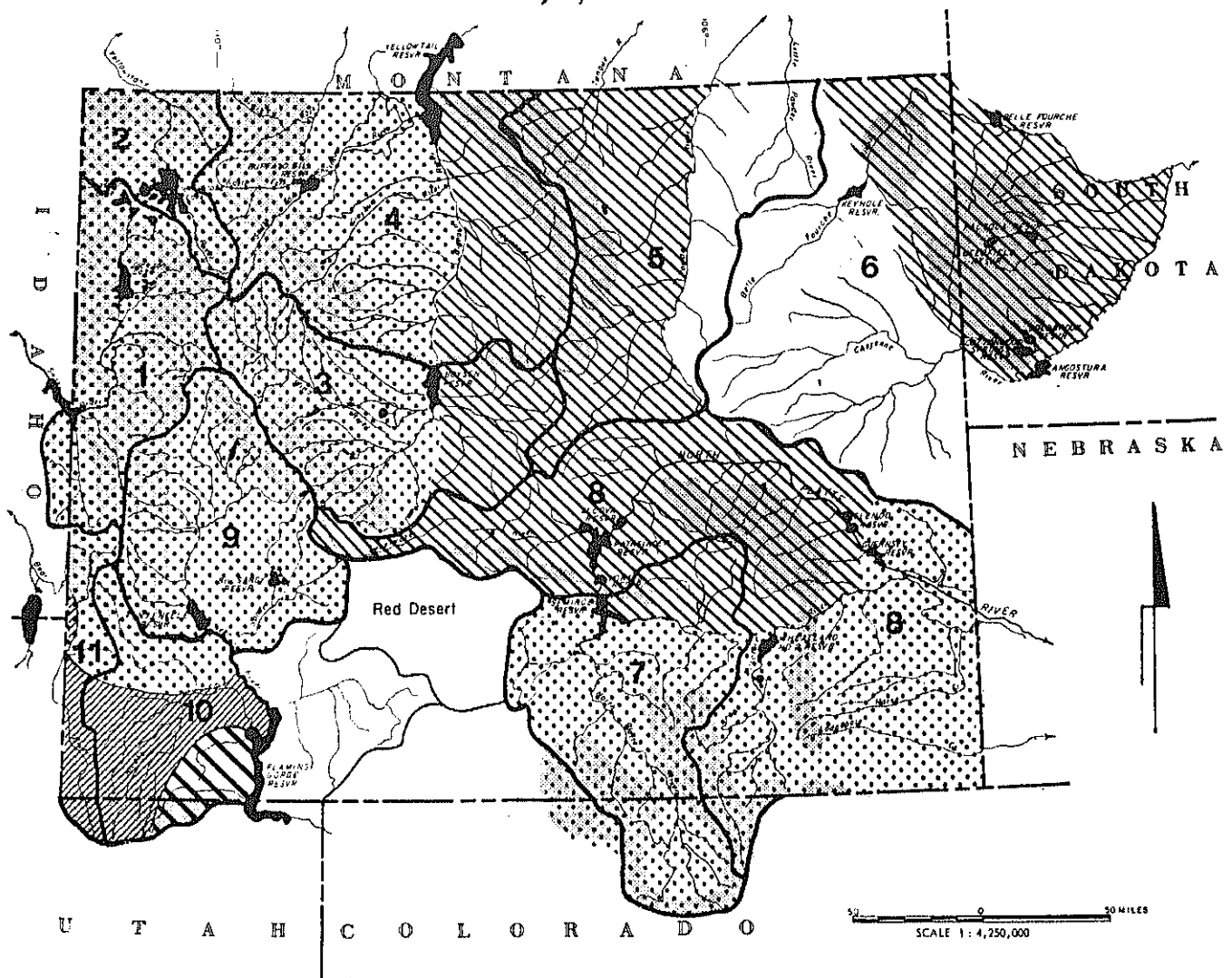
Prepared by

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STREAMFLOW PROSPECTS FOR WYOMING

Spring and Summer Period

May 1, 1985



LEGEND

1. Snake River Basin		>130%	Much Above Average
2. Upper Yellowstone and Madison River Basins		110%-130%	Above Average
3. Wind River Basin		90%-110%	Near Average
4. Bighorn River Basin		70%-90%	Below Average
5. Powder and Tongue River Basins		<70%	Much Below Average
6. Belle Fourche and Cheyenne River Basins			Not Forecast
7. Upper North Platte and Little Snake River Basins			
8. Lower North Platte, Sweetwater, and Laramie River Basins			
9. Upper Green River Basin			
10. Lower Green River Basin			
11. Upper Bear River Basin			

GENERAL OUTLOOK

AN EARLY SEASON OUTLOOK FOR ABUNDANT STREAMFLOW THIS SUMMER HAS WITHERED IN THE DRY TREND OF LATE WINTER AND HEAT OF EARLY SPRING. ONLY UNSEASONABLY HEAVY RAINFALLS CAN OVERCOME PRESENT DRYNESS.

SNOWPACK:

Only the North Platte drainage has escaped significant loss during April, finishing at 19 percent below average on May 1. The Powder River Basin is hardest hit with hot droughty weather slashing the April 1 snow at 27 percent below to a current 62 percent below normal. Other watersheds slipped by about 10 percent, leaving snowpacks of 19 to 38 percent below average. Only remnants of snowpacks remain below 9,000 feet elevation in the Wind and Big Horn Mountains.

PRECIPITATION:

April precipitation was greater than 50 percent below normal in many areas to near normal in extreme northwestern and southeastern Wyoming. A very dry area occurred from the Big Horn Mountains through the Wind River range. Less than 0.1 inch was received at Cody and Dubois and also at a few locations in the Green and Upper North Platte drainages. These amounts were greater than 90 percent below normal.

April recordings caused seasonal comparisons to continue to plunge. These statistics followed the April trend. The Big Horn and Wind drainages were very dry (25 to 75 percent below normal). The Yellowstone, Snake, Niobrara, and Lower North Platte were from 25 percent below to near normal. Elsewhere, comparisons range 25 to 50 percent below normal.

RESERVOIR STORAGE:

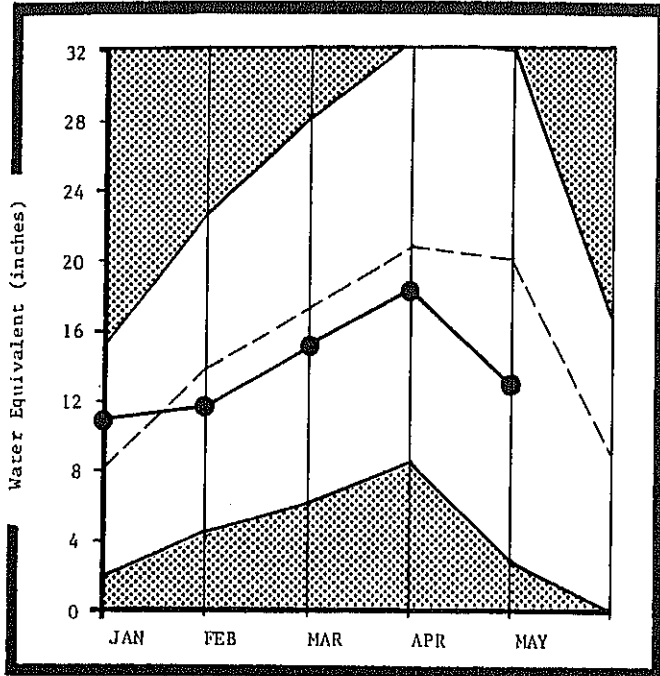
Abundant supplies are common in most of Wyoming's reservoirs, assuring ample supply for their uses this season. Seminoe is highest with over twice usual May 1 volume. Jackson Lake is very low during reconstruction work, and Fontenelle levels are being lowered in view of safety concerns.

STREAMFLOW FORECASTS:

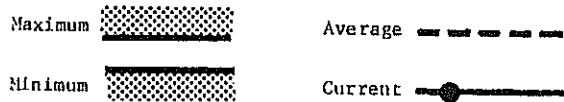
The unusual winter dryness and early spring high temperatures have not only produced poor snowpacks, but are resulting in runoff peaking 2 to 4 weeks earlier than usual. Early summer streamflows for direct diversion may be very short as a result. April streamflows on the Upper Green have been three times normal, for example. With the exception of southwestern Wyoming, forecasts have remained stable or decreased as much as 30 percent compared to average of one month ago. Thirty percent below average forecasts cover the Big Horn Basin, while the North Platte continues at 10 to 14 percent below normal.

SNAKE RIVER BASIN

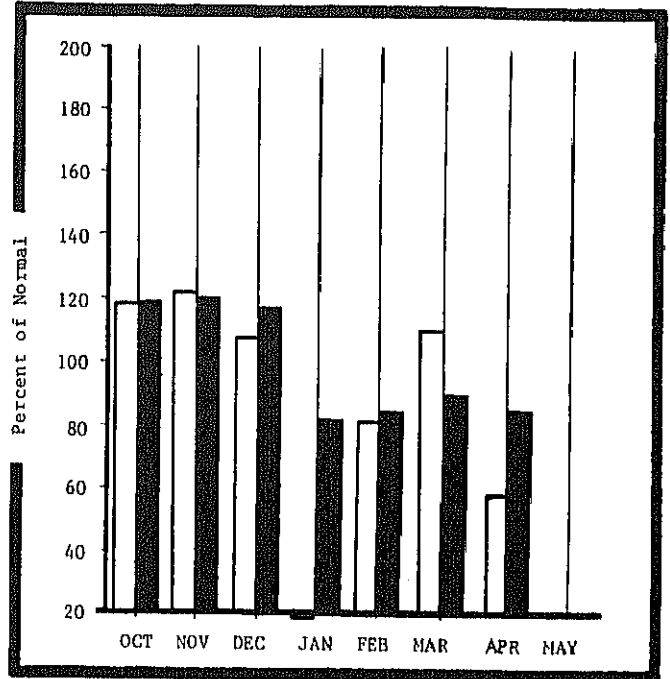
MOUNTAIN SNOWPACK*



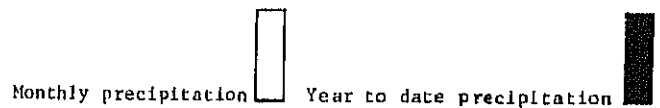
*Based on selected stations



PRECIPITATION*



*Based on selected stations



WATER SUPPLY OUTLOOK:

Streamflow prospects have again diminished with another month of dry and hot weather precluding normal snowpacks. The 15 to 21 percent below normal forecasts can be improved by only very heavy spring rainfalls.

Jackson Lake is quite low during reconstruction, but Grassy and Palisades are well above usual.

SNAKE RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow Forecast Period	PAST RECORD	
	Forecast 1,000 Ac-Ft.	Pct. Ave.		1,000 Acre-Feet Last Yr. **	Average +
SNAKE RIVER near Moran (1)	750	85	April-Sept.		880
SNAKE RIVER above Palisades near Alpine (1)	2,260	83	April-Sept.		2,730
SNAKE RIVER at Heise, ID (2)	2,940	79	May-Sept.		3,720
PACIFIC CREEK at Moran	139	80	April-Sept.		174
GREYS RIVER above Palisades	300	76	April-Sept.		393
SALT RIVER above Palisades near Etna	310	79	April-Sept.		394
PALISADES RESERVOIR INFLOW (1)	3,150	83	April-Sept.		3,793
SWIFT CREEK near Afton	37.0	80	May-Sept.		46.0

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

** Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

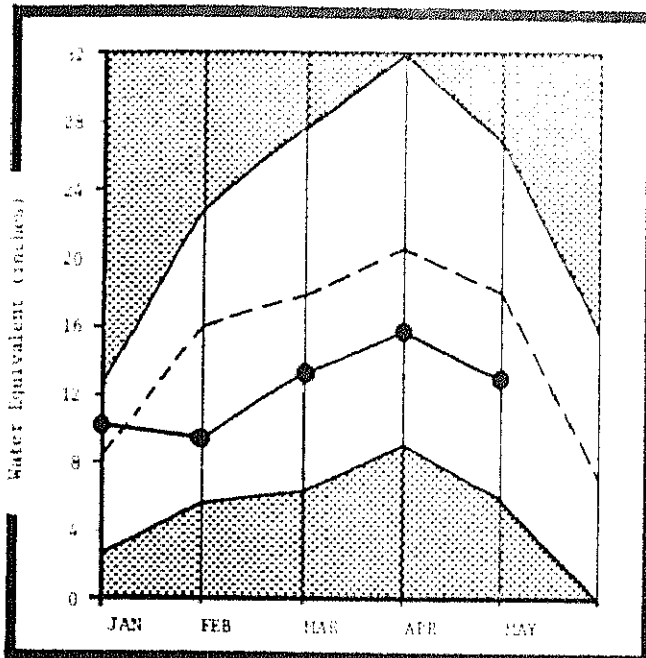
River Basin and/or Sub-Watershed	No.	This Yr. Snow	
		Snow/Water as Pct of	Last Yr/Average
Snake abv. Jackson Lake	2	92	81
Pacific Creek	-	No Measurements	
Gros Ventre	3	68	63
Hoback River	6	78	71
Greys River	2	66	64
Salt River	4	24	31
Snake River above Palisades	15	71	68

RESERVOIR STORAGE (Thousand Ac. Ft.)

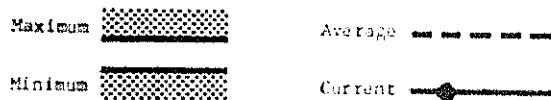
Reservoir	Usable Capacity	Usable Storage		
		This Year	Last Year	Ave.
Grassy Lake	15.1	13.6	14.4	11.0
Jackson Lake	624.4	75.0	498.5	517.6
Palisades	1,200.0	1147.6	657.2	718.5

UPPER YELLOWSTONE AND MADISON RIVER BASINS

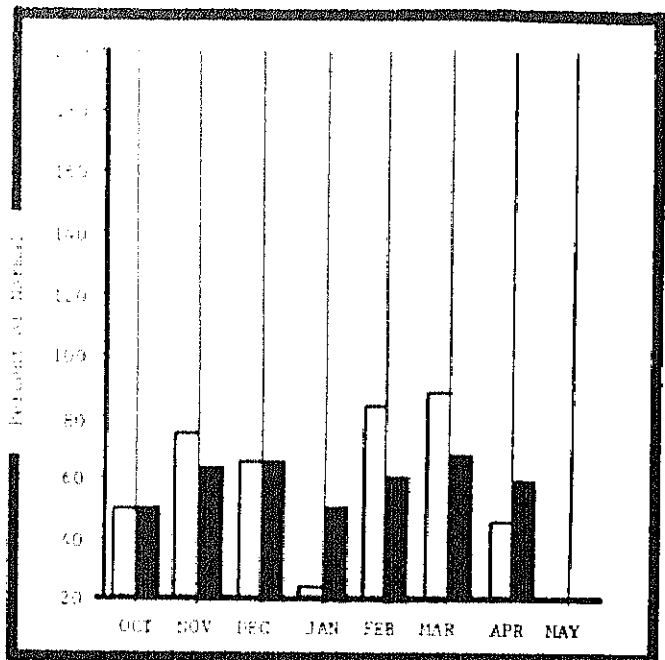
WATER SUPPLY



*Based on selected stations



PRECIPITATION



*Based on selected stations



WATER SUPPLY OUTLOOK:

Snowpacks have diminished, resulting streamflows are to be about 20 percent below normal.

STREAMFLOW FORECASTS

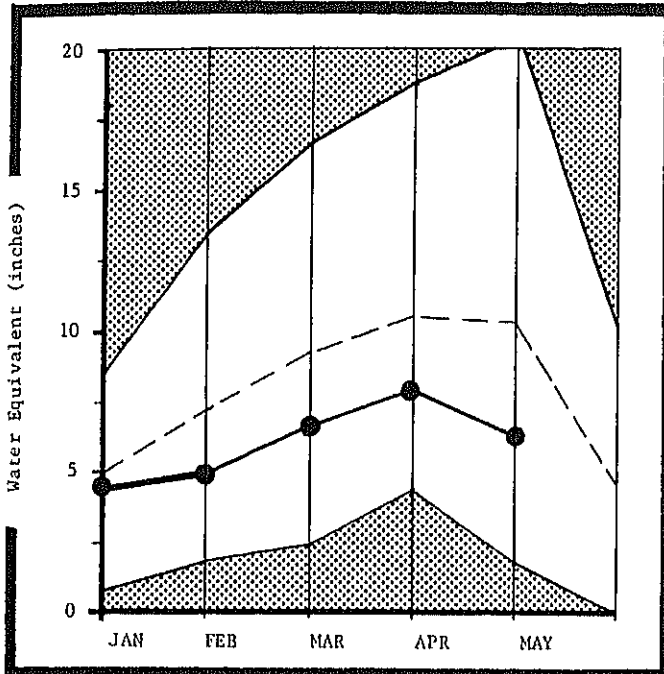
(1) Observed flow plus change in storage in Hebgen Lake.
xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.
+ Period of average 1961-1980.

RESERVOIR STORAGE (Thousand Ac. Ft.)

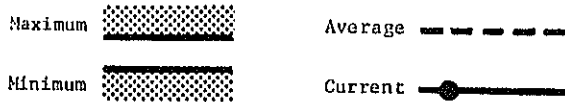
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WIND RIVER BASIN

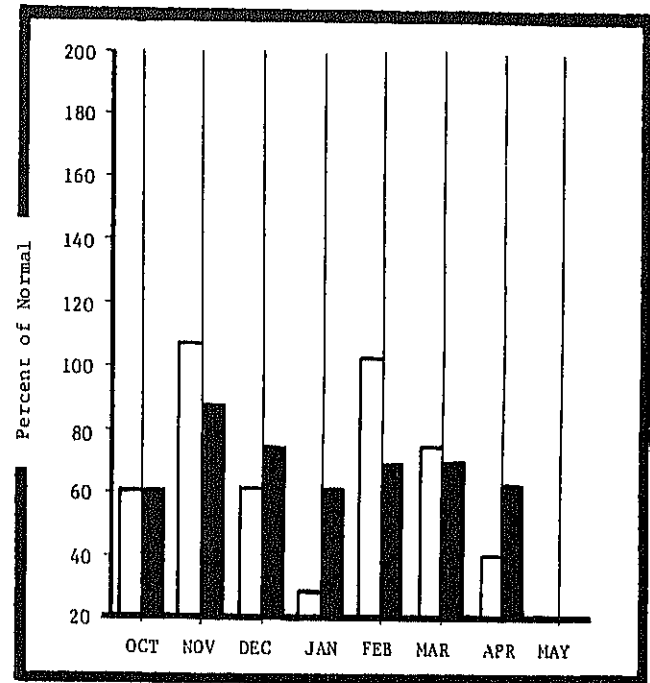
MOUNTAIN SNOWPACK*



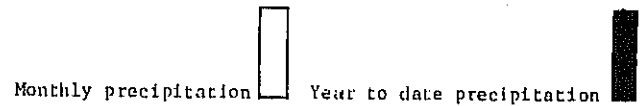
*Based on selected stations



PRECIPITATION*



*Based on selected stations



WATER SUPPLY OUTLOOK:

A very dry month has reduced snowpacks to one-half of usual. Forecasts of runoff continue, however, at about 25 percent below normal. Reservoir storage is very good.

WIND RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow Forecast Period	PAST RECORD	
	Forecast 1,000 Ac-Ft.	Pct. Ave.		1,000 Acre-Feet Last Yr. **	Average +
WIND RIVER near Dubois	85.0	80	April-Sept.		106
WIND RIVER at Riverton (1)	500	74	April-Sept.		678
WIND RIVER below Boysen (2)	890	77	April-Sept.		1,163
BULL LAKE CREEK near Lenore (3)	148	79	April-Sept.		188
LITTLE POPO AGIE near Lander	40.0	75	April-Sept.		53.0

- (1) Observed flow plus change in storage in Bull Lake, Pilot Butte Reservoir and diversion to Wyoming canal.
 (2) Observed flow plus change in storage in Bull Lake, Pilot Butte Reservoir, and Boysen Reservoir; plus diversion to Wyoming canal.
 (3) Observed flow plus change in storage in Bull Lake.
 ** Measured flows for last year are U.S.G.S. provisional figures, subject to revision.
 + Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

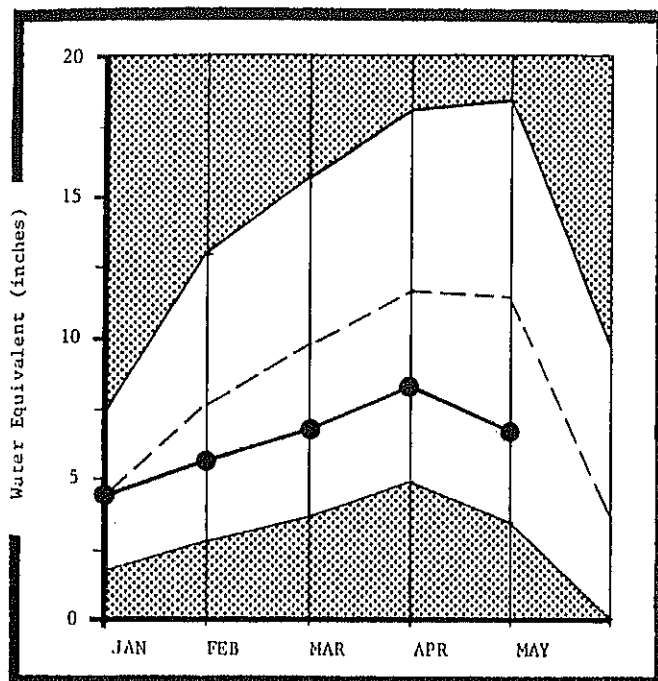
River Basin and/or Sub-Watershed	No. Site	This Yr. Snow Water as Pct. of	
		Last Yr	Average
Upper Wind River	9	58	50
Pogo Agie	3	41	57
Wind River above Boysen	16	48	51

RESERVOIR STORAGE (Thousand Ac. Ft.)

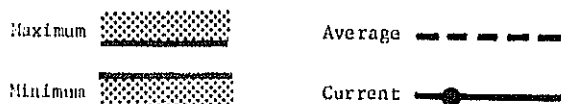
Reservoir	Usable Capacity	Usable Storage		
		This Year	Last Year	Ave.
Bull Lake	151.8	87.0	101.1	79.8
Pilot Butte	31.6	22.0	28.7	26.7
Boysen	549.9	291.0	299.5	250.1

BIGHORN RIVER BASIN

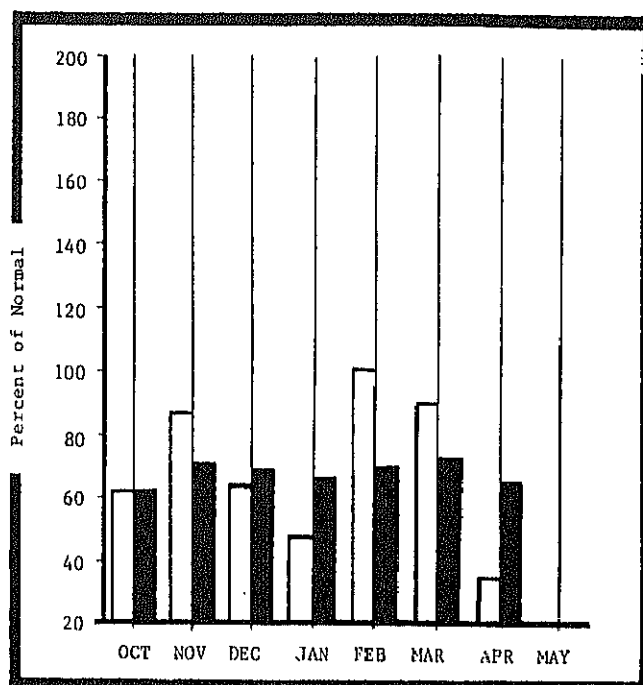
MOUNTAIN SNOWPACK*



*Based on selected stations



PRECIPITATION*



*Based on selected stations



WATER SUPPLY OUTLOOK:

Twenty-five to thirty-five percent below normal streamflows are expected in this very dry basin, based upon the poor snowpacks which are only one-half of usual for May 1. Abundant reservoir stored water will be available for this season's use.

BIGHORN RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR Forecast		Streamflow Forecast Period	PAST RECORD 1,000 Acre-Feet	
	1,000 Ac-Ft.	Pct. Ave.		Last Yr. xx	Average +
WIND RIVER below Boysen Reservoir (1)	890	77	April-Sept.		1,163
TENSLEEP CREEK near Tensleep	52.1	65e	April-Sept.		(Disc.)
MEDICINE LODGE CREEK near Hyattville	13.5	66e	April-Sept.		(Disc.)
SHELL CREEK near Shell	53.9	69	April-Sept.		78.0
GREYBULL RIVER at Meeteetse	150	70	April-Sept.		215
SHOSHONE RIVER below Buffalo Bill Dam (2)	600	71	April-Sept.		845
CLARK FORK near Belfry	455	75	May-Sept.		606
SOUTH FORK SHOSHONE RIVER near Valley	200	72	April-Sept.		278
NOWOOD RIVER near Tensleep	49.0	69	March-Sept.		71x

- (1) Observed flow plus change in storage in Bull Lake, Pilot Butte, and Boysen Reservoir; plus diversion to Wyoming Canal.
- (2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Hart Mountain Canal.
- x Less than 20 year average.
- xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.
- + Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

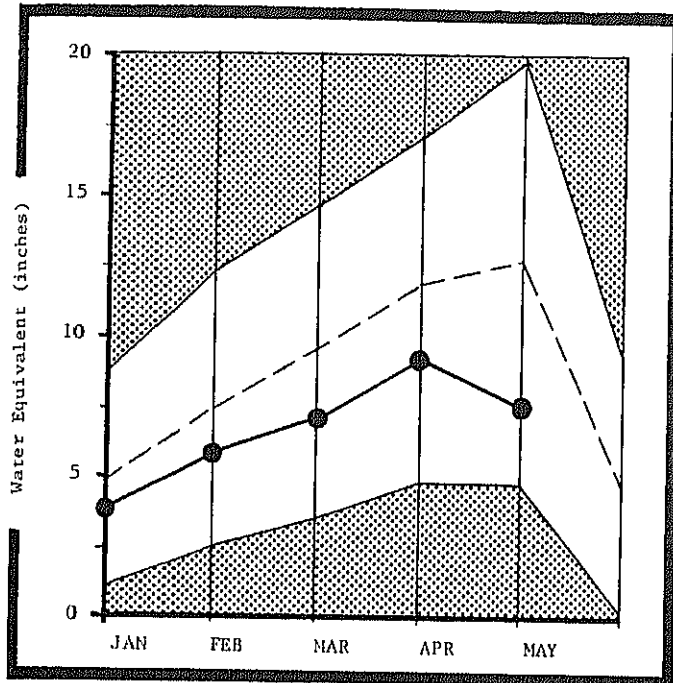
River Basin and/or Sub-Watershed	No. Snow Site	This Yr. Snow Water as Pct of Last Yr/Average	
Clark Fork	17	64	61
Shoshone	-	No Snow	
Nowood	5	55	50
Shell	4	62	66
Greybull	-	No Snow	
Bighorn Basin(Boysen-Bighorn)	20	49	49

RESERVOIR STORAGE (Thousand Ac. Ft.)

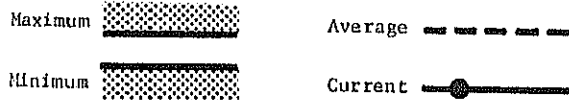
Reservoir	Usable Capacity	Usable Storage		
		This Year	Last Year	Ave.
Boysen	549.9	291.0	299.5	250.1
Buffalo Bill	373.1	213.0	237.3	133.2
Bighorn Lake	1,356.0	851.8	849.2	633.1

POWDER AND TONGUE RIVER BASINS

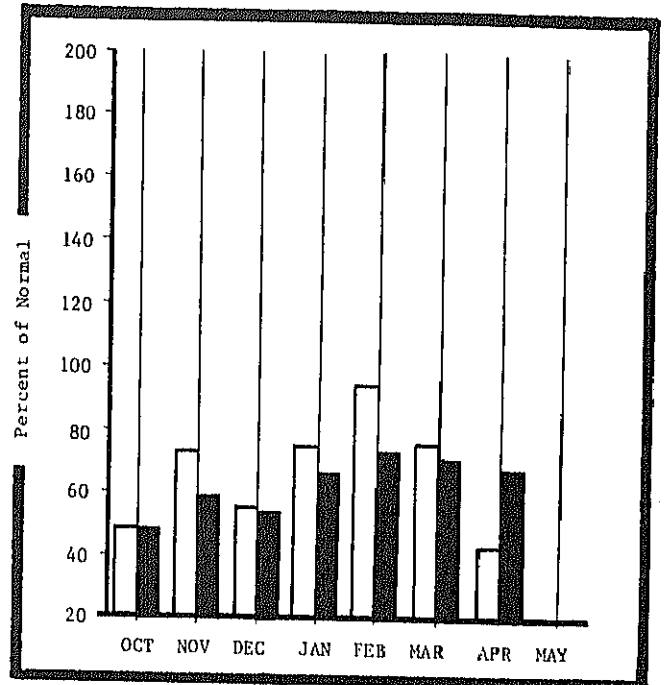
MOUNTAIN SNOWPACK*



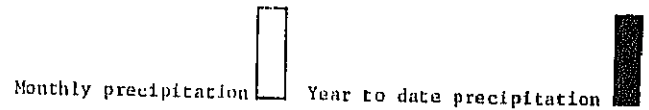
*Based on selected stations



PRECIPITATION*



*Based on selected stations



WATER SUPPLY OUTLOOK:

Little precipitation and hot weather have seriously eroded the mountain snowpack of water reserve (now at 62 percent below normal). Streamflows will likewise be reduced 30 to 40 percent below normal and will peak much earlier in the irrigation season.

POWDER AND TONGUE RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow	PAST RECORD	
	Forecast		Forecast	1,000 Acre-Feet	
	1,000 Ac-Ft.	Pct. Ave.	Period	Last Yr. xx	Average +
TONGUE RIVER near Dayton (1)	88.0	72	April-Sept.		123
MIDDLE FORK POWDER RIVER near Barnum	14.0	65	April-Sept.		21.6
NORTH FORK POWDER RIVER near Hazelton	7.0	66	April-Sept.		10.6
CLEAR CREEK near Buffalo	25.0	63	April-Sept.		40.0
ROCK CREEK near Buffalo	16.9	66	April-Sept.		25.4
PINEY CREEK at Kearny	35.5	65	April-Sept.		54.8
LITTLE BIGHORN at Hardin, MT	94.3	60	April-Sept.		182

(1) Observed flow plus diversion to Highline Ditch.

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

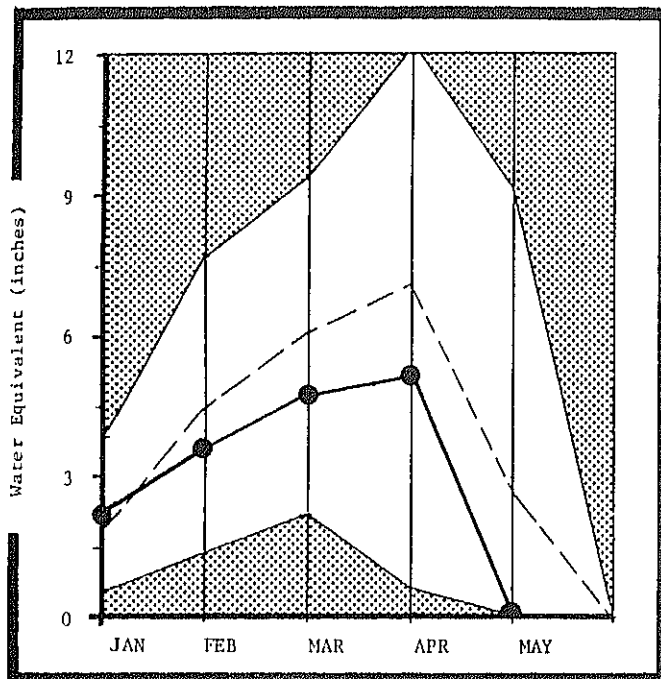
River Basin and/or Sub-Watershed	No. of Sites	This Yr. Snow	
		Snow Water as Pct of	Average
Tongue River	13	54	66
Goose Creek	4	54	66
Clear Creek	-	No Snow	
Crazy Woman Creek	3	46	40
Powder River Basin	8	33	37

RESERVOIR STORAGE (Thousand Ac. Ft.)

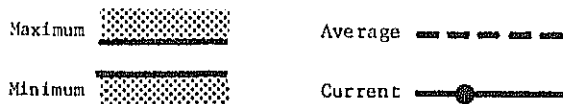
Reservoir	Usable Capacity	Usable Storage		
		This Year	Last Year	Ave.
=====				
- No Reservoirs -				
		</		

BELLE FOURCHE AND CHEYENNE RIVER BASINS

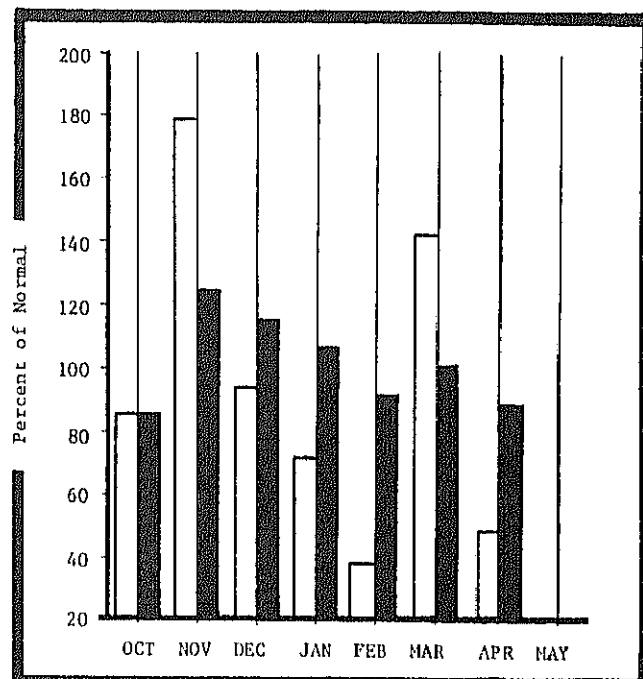
MOUNTAIN SNOWPACK*



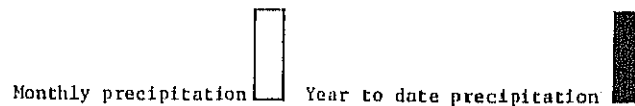
*Based on selected stations



PRECIPITATION*



*Based on selected stations



WATER SUPPLY OUTLOOK:

Droughty trend of north and eastern Wyoming continues projecting early and reduced streamflows. Reservoir water users will have a good supply, however, this season.

BELLE FOURCHE & CHEYENNE RIVER WATERSHED

STREAMFLOW FORECASTS

0 STREAMFLOW FORECAST POINT	THIS YEAR Forecast		Streamflow Forecast Period	PAST RECORD 1,000 Acre-Feet	
	1,000 Ac-Ft.	Pct. Ave.		Last Yr.xx	Average
- No forecasts issued in this area -					

SUMMARY of SNOW MEASUREMENTS

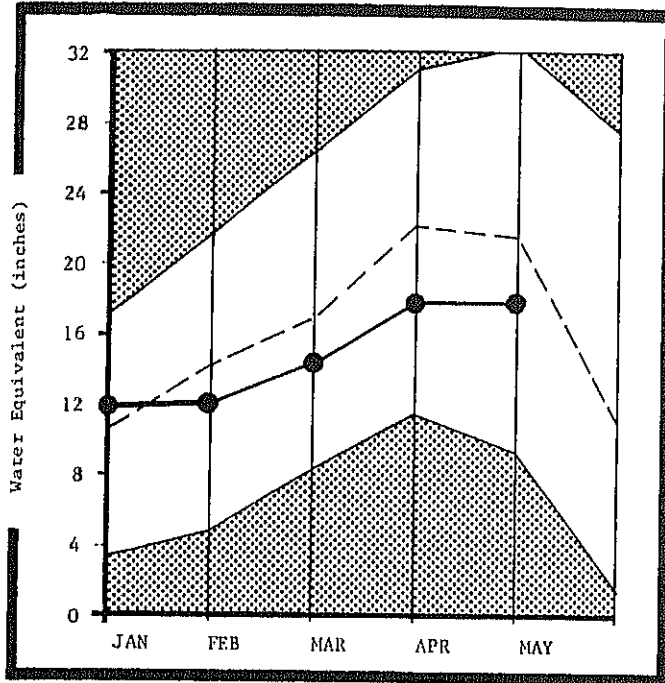
River Basin and/or Sub-Watershed	No. Snow Site	This Yr. Snow Water as Pct of	
		Last Yr	Average
Belle Fourche	-	No Snow	

RESERVOIR STORAGE (Thousand Ac. Ft.)

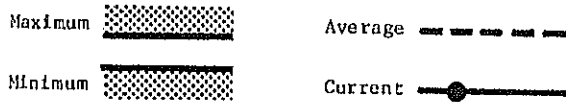
Reservoir	Usable Capacity	Usable Storage		
		This Year	Last Year	Ave.
Keyhole	190.4	74.5	59.1	129.3
Belle Fourche	185.2	168.4	152.3	157.2
Angostura	86.2	63.0	81.9	77.0
Deerfield	15.1	15.0	11.5	14.7
Pactola	55.0	55.0	54.6	52.2
Shadehill	81.5	78.0	63.5	66.0

UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS

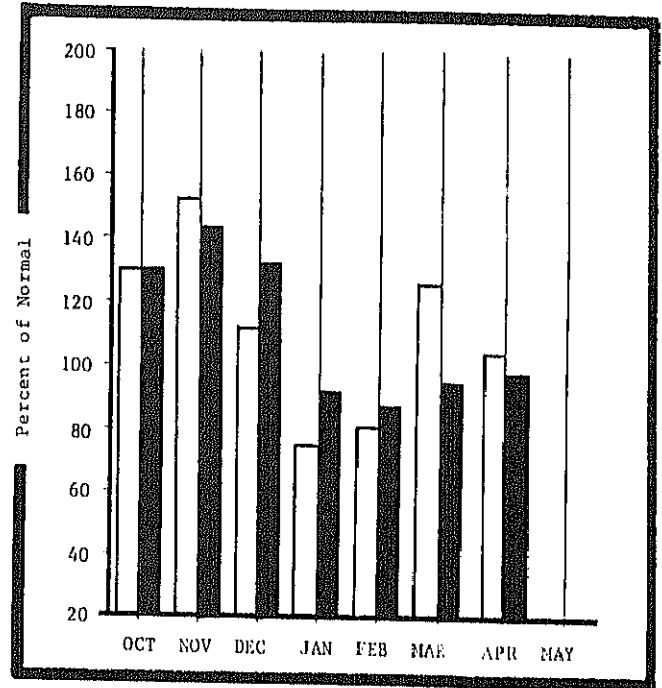
MOUNTAIN SNOWPACK*



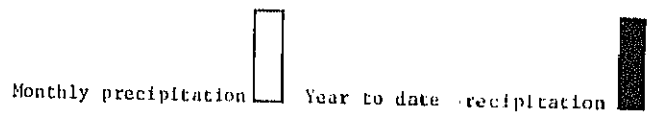
*Based on selected stations



PRECIPITATION*



*Based on selected stations



WATER SUPPLY OUTLOOK:

Snowpack comparisons remained with little change during April. The 14 percent below normal condition predicts streamflows in the 8 to 16 percent below normal. Reservoirs' storage is in excellent supply.

UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR Forecast		Streamflow Forecast Period	PAST RECORD 1,000 Acre-Feet	
	1,000 Ac-Ft.	Pct. Ave.		Last Yr. xx	Average +
NORTH PLATTE RIVER near Northgate	225	86	April-Sept.		262
NORTH PLATTE RIVER near Sinclair	853	82	April-Sept.		710
ENCAMPMENT RIVER near Encampment	140	90	April-Sept.		156
ROCK CREEK near Arlington	46.5	81	April-Sept.		57.6
LITTLE SNAKE RIVER near Dixon (1)	295	92	April-Sept.		320
LITTLE SNAKE RIVER near Slater, CO (1)	142	90	April-Sept.		158

(1) Observed flow plus transbasin diversion.

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

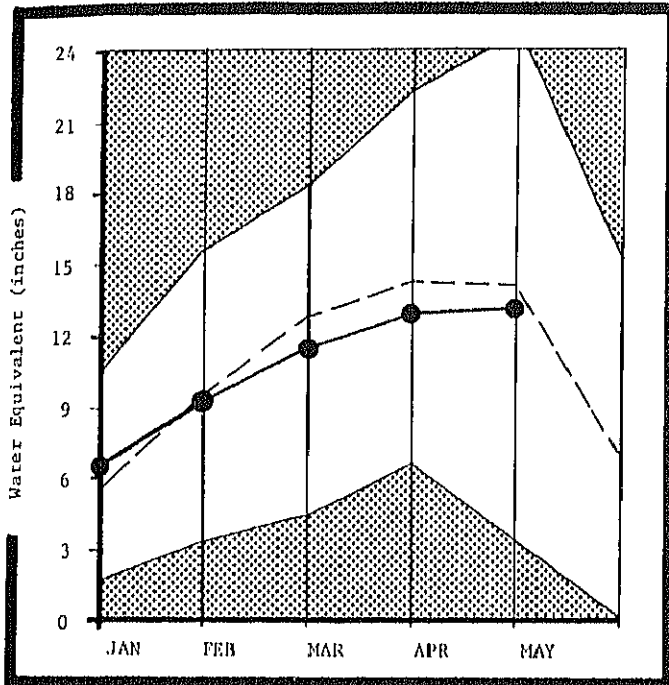
River Basin and/or Sub-Watershed	No. Snow Site	This Yr. Snow Water as Pct of Last Yr Average	
		Last Yr	Average
Upper North Platte	14	67	92
Encampment	3	69	90
Brush Creek	3	65	94
Medicine Bow & Rock Creeks	3	79	88
North Platte abv, Seminoe	21	67	85
Little Snake River	8	69e	90e

RESERVOIR STORAGE (Thousand Ac. Ft.)

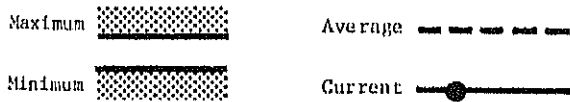
Reservoir	Usable Capacity	Usable Storage		
		This Year	Last Year	Ave.
Seminoe	1,017.3	842.0	635.8	358.2

LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE RIVER BASINS

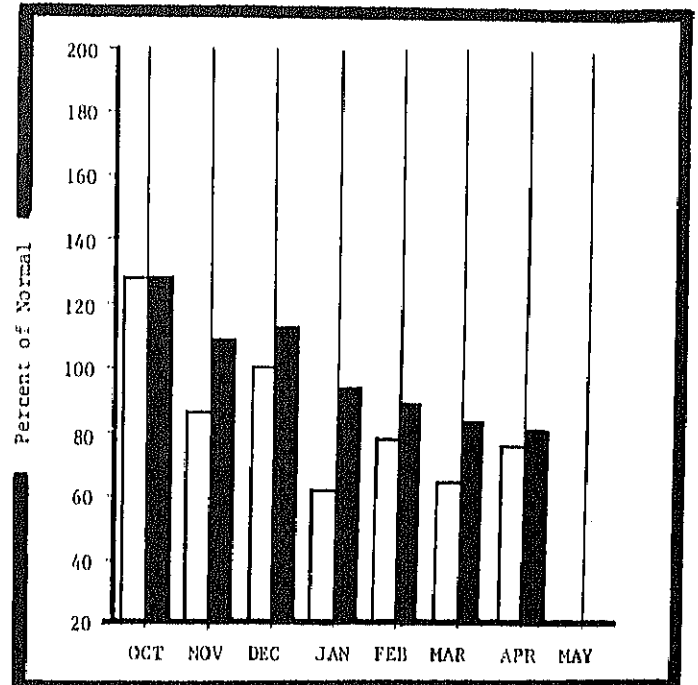
MOUNTAIN SNOWPACK*



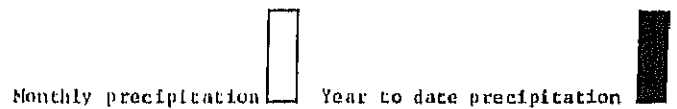
*Based on selected stations



PRECIPITATION*



*Based on selected stations



WATER SUPPLY OUTLOOK:

Water supplies on the Laramie River are reduced from one month ago by about 10 percent, except for the Laramie still holding at 17 percent below normal. Runoff is early in the Laramie Range and snowpacks are less than one-half of usual. Reservoir storage amounts continue very good.

STREAMFLOW FORECASTS

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

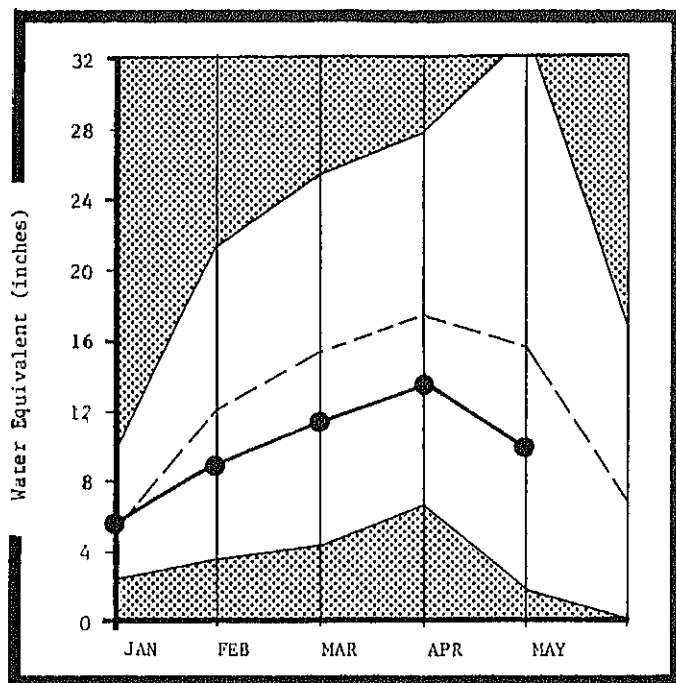
+ Period of average 1961-1980.

RESERVOIR STORAGE (Thousand Ac. Ft.)





River Basin and/or Sub-Watershed	(No. of Sites)	This Yr. Snow Water as Pct of Last Yr Average	Reservoir	Usable Capacity	Usable Storage This Year	Last Year	Average
Sweetwater	3	38	40	Seminole	1,017.3	842.0	635.8
Deer & LaPrele Creeks	2	27	41	Pathfinder	1,015.5	875.0	900.2
N. Platte abv. Laramie River	15	66	83	Alcova	30.7	28.0	11.4
Little Laramie River	4	51	65	Glendo	783.7	475.0	428.1
Upper Laramie River	8	66	89	Guernsey	45.2	31.0	30.6
Laramie River Total	16	56	78	Wheatland #2	98.9	86.0	70.6
N. Platte River in Wyoming	57	63	81	PROJECT WATER			
				North Platte Project	1,016.1	1,092.0	1,025.0
				Kendrick Project	1,201.6	1,053.0	1,019.3
				Glendo Project Users	454.3	155.0	9.2

UPPER GREEN RIVER BASIN

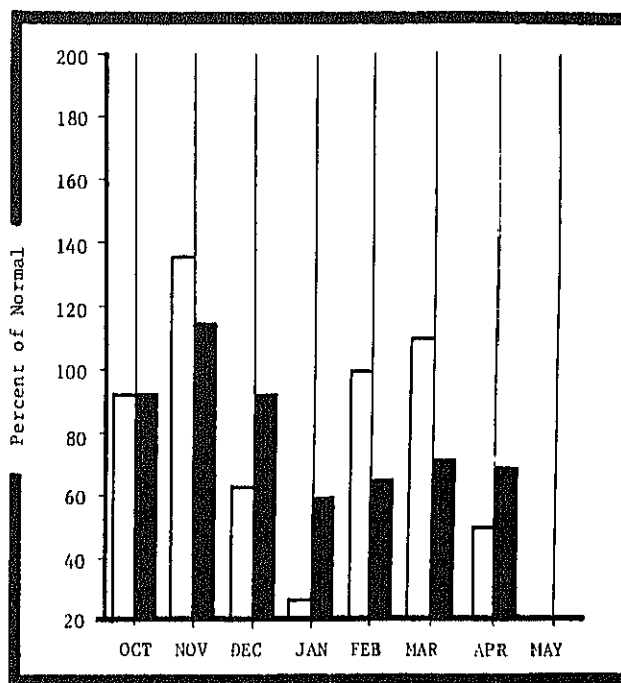
MOUNTAIN SNOWPACK*




*Based on selected stations

Maximum  Average 
 Minimum  Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snowpacks averaging 37 percent below normal are supporting streamflow forecasts at about 20 percent below normal. Reservoir storage is excellent at Big Sandy, but Fontenelle is being lowered as a safety precaution.

STREAMFLOW FORECASTS

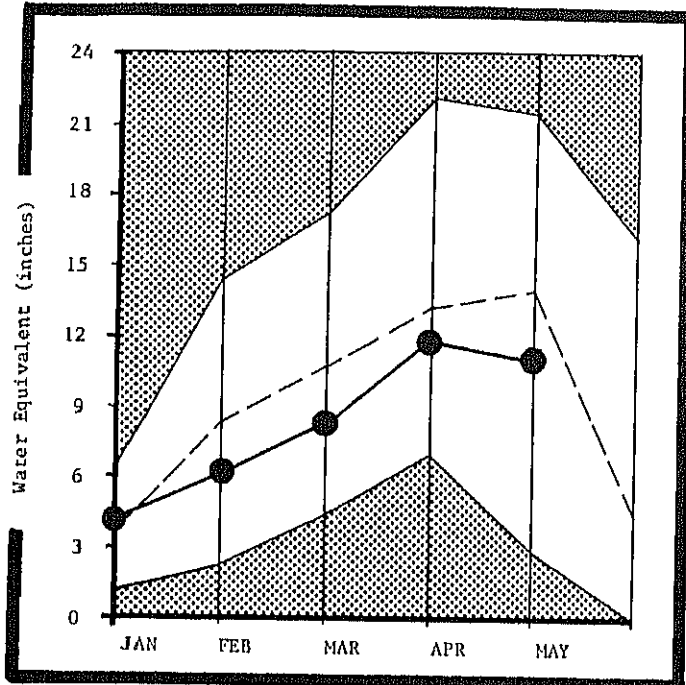
xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.
+ Period of average 1961-1980.

RESERVOIR STORAGE (Thousand Ac. Ft.)

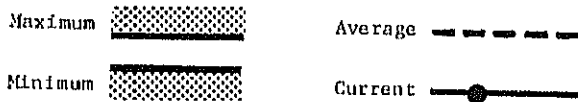
River Basin and/or Sub-Watershed	No. of Sites	This Yr. Snow Water as Pct of Last Yr	Snow Average	Reservoir	Usable Capacity	Usable Storage This Year	Last Year	Ave.
Green River abv Warren Bridge	4	65	55	Eden	11.8	--	11.7	4.5
Upper Green (West Side)	6	75	72	Big Sandy	38.3	31.0	25.0	23.9
New Fork	3	60	52	Fontenelle	344.8	145.0	161.0	161.5
	2	66	65					
Fontenelle	11	70	63					

LOWER GREEN RIVER BASIN

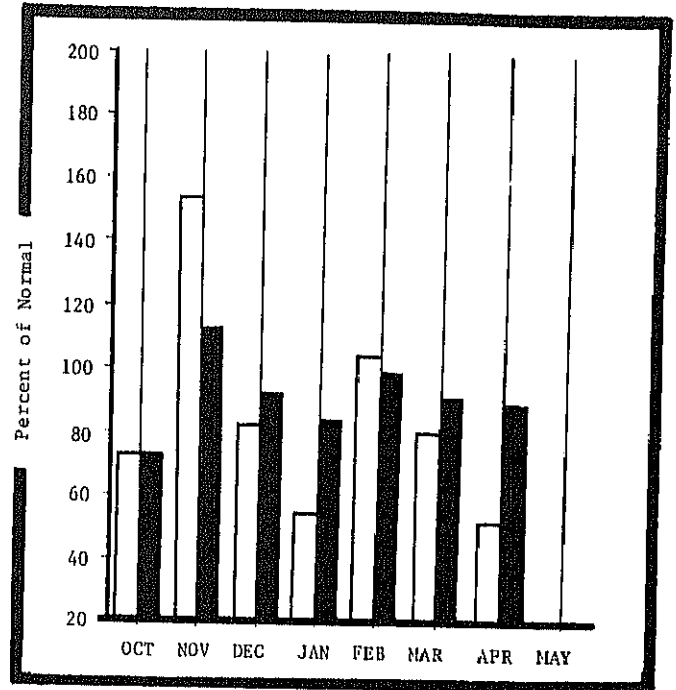
MOUNTAIN SNOWPACK*



*Based on selected stations



PRECIPITATION*



*Based on selected stations



WATER SUPPLY OUTLOOK:

The state's best prospects for summer streamflow exist here at 9 to 40 percent above normal. The heavy snows of the Uinta Range have persisted through the winter at above to now near normal conditions.

LOWER GREEN RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR Forecast		Streamflow Forecast Period	PAST RECORD 1,000 Acre-Feet	
	1,000 Ac-Ft.	Pct. Ave.		Last Yr.xx	Average +
FONTENELLE Reservoir Inflow	750	86	April-July		869
HAMS FORK below Pole Creek, near Frontier	56.0	78	April-Sept.		71.3
GREEN RIVER near Green River (1)	809	75	April-Sept.		1,079
BLACK FORK RIVER near Milburne	95.0	109	May-July		87
HENRY'S FORK RIVER near Linwood, UT	60.0	140	May-July		43
FLAMING GORGE Inflow (1)	1,100	88	April-July		1,248

(1) Observed flow plus change in storage in Fontenelle Reservoir.

xx Measured flows for last year are U.S.G.S. provisional figures, subject to revision.

+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

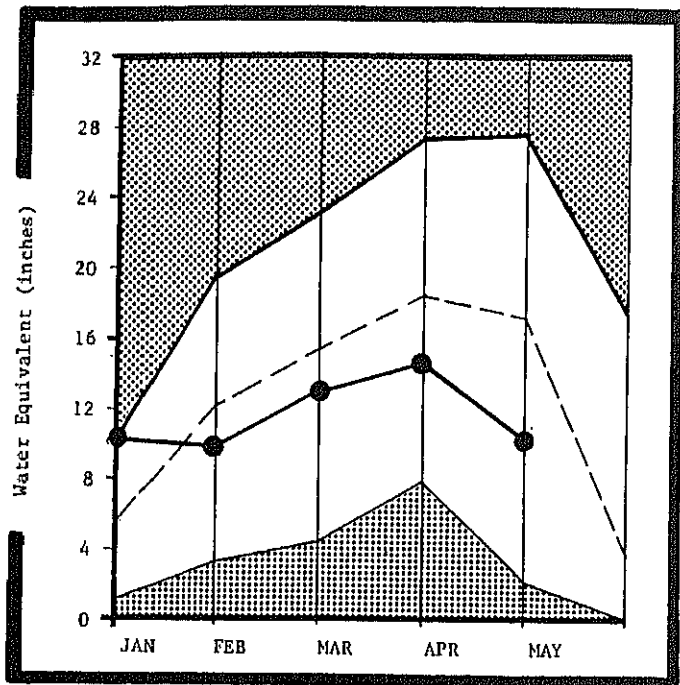
River Basin and/or Sub-Watershed	No. of Sites	This Yr. Snow Water as Pct of	
		Last Yr	Average
Hams Fork	3	72	71
Blacks Fork	4	55	72
Henry's Fork	1	104	226
Green River above Flaming G.	14	71	66

RESERVOIR STORAGE (Thousand Ac. Ft.)





Reservoir	Usable Capacity	Usable Storage		
		This Year	Last Year	Ave.
Flaming Gorge	3,749.0	13109.0	13067.0	--
Viva Naughton	36.0	-	8.5	26.2

UPPER BEAR RIVER BASIN

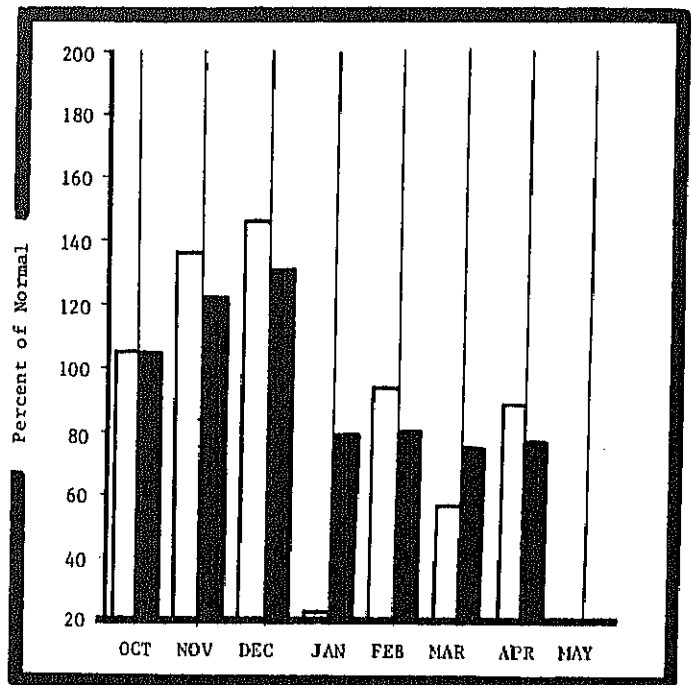
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum  Average 
Minimum  Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Bear River flow volumes promise to be a little above normal, providing good supply to water users. The Smith's and Thomas Fork, however, continue at about 25 percent below normal expected flows.

BEAR RIVER BASIN

STREAMFLOW FORECASTS

STREAMFLOW FORECAST POINT	THIS YEAR		Streamflow Forecast Period	PAST RECORD	
	Forecast 1,000 Ac-Ft.	Pct. Ave.		1,000 Acre-Feet Last Yr. **	Average +
SMITHS FORK near Border	93	78	April-Sept.		119
THOMAS FORK near State Line	26.0	74	April-Sept.		35.1
BEAR RIVER at Utah-Wyoming State Line	110	105	May-July		105
BEAR RIVER near Woodruff	118	102	May-July		116
BEAR RIVER near Randolph	86	105	May-July		82

** Measured flows for last year are U.S.G.S. provisional figures, subject to revision.
+ Period of average 1961-1980.

SUMMARY of SNOW MEASUREMENTS

River Basin and/or Sub-Watershed	No. Snow Sites	This Yr. Snow	
		Water as Pct of Last Yr	Average
Upper Bear River	3	41	51
Smith & Thomas Forks	4	54	60
Bear River Total	10	57	62

RESERVOIR STORAGE (Thousand Ac. Ft.)

Reservoir	Usable Capacity	Usable Storage		
		This Year	Last Year	Ave.
Woodruff Narrows	55.8	55.8	35.0	--

SNOW COURSE DATA

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
HYDROING		MAY 1985				
AFTON RANGER STATION	6240	4/30/85	0	.0	.0	.0
ALBANY	9120	4/25/85	25	7.6	21.3	13.9
BALD MOUNTAIN	9380	4/25/85	58	18.7	34.2	29.4
BALD MOUNTAIN SNOTEL	9380	5/01/85	---	15.7	---	---
BASE CAMP SNOTEL	7030	5/01/85	---	6.7	14.2	---
BATTLE MOUNTAIN	7440	4/30/85	0	.0	14.8	---
BEARTOOTH LK. SNOTEL	9280	5/01/85	---	16.3	19.3	---
BEAR TRAP MOUNTAINS. SNTL	7900	4/25/85	14	3.5	---	7.0
BIG GOOSE	7760	4/29/85	---	.0	10.5	---
BIG PARK	8620	4/26/85	46	15.8	22.8	21.9
BIG SANDY OPENING	9080	4/30/85	25	9.5	14.6	14.6
BIG SANDY OPEN SNTL	9080	5/01/85	---	5.1	---	---
BIG WASH SPRINGS	8370	4/28/85	5	1.4	4.6	6.0
BLACKWATER SNOTEL	9780	5/01/85	---	21.5	23.7	---
BLIND BULL SNOTEL	8650	5/01/85	---	20.1	26.6	---
BLUE RIDGE	9620	4/29/85	---	7.7E	19.5	14.1
BONE SPRINGS DIVIDE	9350	4/25/85	58	17.4	25.0	22.6
BONE SPGS. DIV SNTL	9350	5/01/85	---	14.1	22.3	---
BOXELDER	7280	4/30/85	6	2.7	12.7	7.2
BROOKLYN LAKE	10220	4/25/85	52	18.0	28.8	25.1
BROOKLYN LK. SNOTEL	10220	4/30/85	---	24.3	32.6	---
BRYAN FLAT	6420	4/29/85	0	.0	3.3	2.7
BUCK CREEK	7900	4/30/85	13	5.0	16.0	11.7
BURGESS RANGER STA	7880	4/30/85	21	6.0	15.3	9.9
BURGESS JCT. SNOTEL	7880	5/01/85	---	10.6	19.0	---
BURROUGHS CREEK	8750	4/28/85	24	8.1	11.7	14.7
BURROUGHS CRK SNOTEL	8750	5/01/85	---	33.8	10.9	---
BUTTER HILL	7880	4/29/85	31	11.6	18.7	---
CANYON SNOTEL	7940	5/01/85	---	8.1	9.2	15.4
CANYON (LOISC.)	7940	4/30/85	30	11.3	9.2	15.4
CARTER MOUNTAIN	7950	4/28/85	0	.0	13.0	6.9
CASPER MOUNTAIN	7850	4/29/85	42	14.8	22.0	18.8
CASPER MOUNTAIN SNOTEL	7850	4/30/85	---	9.7	25.0	---
CASTLE CREEK	8400	4/28/85	0	.0	1.2	2.4
CCC CAMP	7000	4/29/85	10	4.0	13.2	9.0
CHRISTINA LK SNOTEL	9780	5/01/85	---	10.8	18.5	---
CLOUD PEAK SNOTEL	9850	4/25/85	36	10.0	---	15.7
CLOUD PEAK SNOTEL	9850	5/01/85	---	12.3	20.7	---
COTTONWOOD LK SNOTEL	7600	5/01/85	---	9.4	23.1	---
COULTER CREEK SNOTEL	7020	5/01/85	---	11.4	---	---
DEEP CREEK	7880	4/30/85	13	5.8	---	9.2
DEEP LAKE	10500	4/27/85	108	41.0	50.2	46.8
DIMHOODY	10160	4/30/85	26	8.2	12.6	13.8
DIMHOODY SNOTEL	10000	5/01/85	---	.0	9.5	---
DOME LAKE	8880	4/29/85	25	7.8	15.6	12.7
DOME LAKE SNOTEL	8880	5/01/85	---	8.1	19.0	---
DU NOIR	8760	4/28/85	7	2.2	7.3	7.9
EAST ENTRANCE	6960	4/30/85	0	.0	.8	3.0
EAST RIM DIVIDE	7930	4/25/85	15	4.4	9.1	11.8
ELKHART PARK G.S.	9400	4/27/85	27	9.0	13.0	14.8
ELKHART PARK SNOTEL	9400	5/01/85	---	5.4	13.9	---
ELKHORN	8480	4/29/85	58	28.6	30.6	---
EVINGSTAR SNOTEL	9200	5/01/85	---	24.9	10.5	5.8
FOX PARK	9060	4/29/85	6	3.4	---	20.7
GENEVA PASS	9400	4/25/85	35	10.5	---	6.1
GEYSER CREEK	8500	4/28/85	6	1.8	6.0	16.1
GRANITE MEADOWS	8860	4/29/85	23	8.6	18.3	---

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
GRASSY LAKE	7270	5/01/85	53	26.7	33.6	35.4
GRASSY LAKE SNOTEL	7270	5/01/85	---	27.9	33.3	---
CREYS BOUNDARY	5720	4/30/85	0	.0	6.0	3.2
CROS VENTRE SUMMIT	8750	4/30/85	25	8.2	12.6	11.8
CROS VENTRE SNOTEL	8750	5/01/85	---	11.1	14.1	---
CROVER PARK DIVIDE	7060	4/29/85	2	1.0	14.0	9.6
HAIRPIN TURN	9460	4/25/85	38	12.4	22.0	17.9
HANSEN S.R. SNOTEL	8760	5/01/85	---	.0	10.4	---
HASKINS CREEK	8980	4/30/85	73	30.8	41.9	---
HOBBS PARK	10100	4/30/85	39	12.3	20.6	17.5
HOBBS PARK SNOTEL	10100	5/01/85	---	15.2	18.0	---
INDIAN CREEK SNOTEL	9430	5/01/85	---	22.9	30.6	---
IRISH ROCK SNOTEL	9800	5/01/85	---	8.7	12.1	---
KELLEY RANGER STA.	8180	4/26/85	40	13.2	20.8	18.5
KELLEY R.S. SNOTEL	8180	5/01/85	---	8.6	21.3	---
KENDALL R.S.	7740	4/25/85	14	4.6	7.9	9.9
KIRKIN SNOTEL	9550	5/01/85	---	9.0	11.9	---
LA BONTÉ	7750	4/30/85	0	.0	4.6	2.0
LAKE CAMP	7780	4/29/85	19	6.4	5.7	8.1
LA PRELE SNOTEL	8380	4/30/85	---	2.7	15.9	---
LARSEN CREEK	9020	4/30/85	0	.0	12.2	12.6
LEWIS LAKE DIVIDE	7850	5/01/85	73	37.6	36.4	44.1
LEWIS LAKE SNOTEL	7850	5/01/85	---	28.7	30.0	---
LIEBY LODGE	8750	4/25/85	18	5.8	14.6	10.3
LITTLE WARM	9620	4/28/85	50	13.0	17.0	18.9
LITTLE WARM SNOTEL	9620	5/01/85	---	5.5	---	---
LOOMIS PARK	8240	4/29/85	29	10.5	12.9	17.3
LOOMIS PARK SNOTEL	8240	5/01/85	---	7.6	15.5	---
LOST CREEK SNOTEL	8080	5/01/85	---	10.0	25.1	---
LUPINE CREEK	7380	5/02/85	8	2.6	7.1	8.1
MARQUETTE CREEK SNTL	8760	4/28/85	0	.0	16.9	---
MARQUETTE CREEK	8760	5/01/85	---	.6	12.2	13.6
MEDICINE LODGE LAKES	9340	4/25/85	30	7.7	15.2	6.5
MIDDLE FORK	7420	5/02/85	0	.0	18.7	15.4
MIDDLE POWDER	7760	4/28/85	40	9.4	18.7	---
MIDDLE POWDER SNOTEL	7760	5/01/85	---	11.5	21.7	---
MOSS LAKE	9880	4/27/85	57	24.0	31.0	28.4
MUDDY CREEK G.S.	7820	4/23/85	0	.0	5.5	4.1
NEW FORK LAKE	8340	4/29/85	14	4.9	9.7	11.1
MORRIS BASIN (OLD)	7500	4/30/85	7	2.5	5.2	7.7
MORRIS BASIN (NEW)	7500	4/30/85	13	4.7	4.9	---
NORTH BARRETT CREEK	9430	4/25/85	61	21.5	30.3	24.0
N-FRENCH CRK SNOTEL	10130	4/30/85	---	30.2	41.1	28.2
NORTH TONGUE	8450	4/30/85	34	10.0	19.4	15.3
NONWOOD CREEK SNOTEL	8600	5/01/85	---	9.3	14.2	---
OLD BATTLE	9920	4/25/85	85	36.1	39.5	---
OLD BATTLE SNOTEL	9920	5/01/85	---	33.7	47.5	---
OLD FAITHFUL	7400	5/01/85	24	10.2	9.2	11.6
ORION GULCH	8780	4/23/85	22	5.8	8.9	10.3
ORION CREEK	8780	4/27/85	5	1.6	10.9	6.9
ORION CREEK SNOTEL	8780	5/01/85	---	.0	8.1	---
PARKERS PEAK SNOTEL	9400	5/01/85	---	18.0	20.0	---
PHILLIPS BENCH	8200	4/29/85	72	27.0	26.8	32.0
PHILLIPS BENCH SNTL	8200	5/01/85	---	23.5	29.8	---
POISON HEADS	9350	4/26/85	31	9.0	13.6	13.8
POLE MOUNTAIN	8360	4/29/85	9	3.5	16.3	3.4
POWDER RIVER PASS	9480	4/30/85	18	5.2	9.3	13.1
POWDER RVR-PASS SNTL	9480	5/01/85	---	3.9	11.8	---

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
PURGATORY GULCH	8970	4/30/85	26	10.7	18.0	11.7
RANGER CREEK	8120	4/25/85	11	3.2	8.9	9.7
RENO HILL SNOTEL	8500	4/30/85	---	6.8	19.4	---
ROCK CREEK	9980	4/28/85	75	29.6	38.6	32.0
RODNEY CREEK	8300	4/26/85	51	18.2	18.4	21.6
RYAN PARK	8350	4/25/85	18	5.9	16.6	9.2
SALT RIVER SUMMIT	7700	4/29/85	15	5.2	15.8	14.5
SAND LAKE SNOTEL	10090	4/30/85	---	31.5	43.3	---
SANDSTONE R.S.	8150	4/30/85	17	7.9	21.1	---
SANDWILL DIVIDE	9260	4/29/85	41	12.2	22.2	16.7
SHELL CREEK	9580	4/25/85	51	12.9	16.6	17.6
SHELL CREEK SNOTEL	9580	5/01/85	---	15.3	18.1	---
SHERIDAN R.S.	7720	4/28/85	0	0	3.9	4.5
SHERIDAN R.S. NEH	7750	4/28/85	3	1.8	3.4	---
SNIDER BASIN R.S.	8060	4/30/85	22	8.1	16.0	15.5
SNOW KING HTM	8060	5/01/85	---	6.9	11.5	---
SOLDIER PARK	7660	4/30/85	20	7.1	11.6	13.4
SOUR DOUGH	8780	4/23/85	0	0	10.0	7.7
SOUTH BRUSH CRK. SNTL	8460	4/23/85	0	0	8.9	7.7
SOUTH PASS	9040	4/29/85	33	9.7	21.1	---
SOUTH THOMAS FORK	7840	4/29/85	---	10.5	20.1	19.1
SPRING CRK. SNOTEL	9000	5/01/85	---	6.9E	16.8	13.6
ST. LAWRENCE R.S.	8960	4/30/85	0	17.8	26.4	---
ST. LAWRENCE SNOTEL	8950	5/01/85	0	0	12.0	8.3
ST. LAWRENCE II SNTL	8620	5/01/85	---	4.3	14.5	---
SUCKER CREEK	8880	4/30/85	24	4	---	---
SUCKER CREEK SNOTEL	8880	5/01/85	---	8.1	19.8	16.2
SYLVAN LAKE SNOTEL	8420	4/30/85	0	8.3	17.5	---
SYLVAN PASS	7100	4/30/85	0	0	21.2	---
T-CROSS RANCH	7900	4/28/85	1	0	4.5	9.6
TEIION PASS H.S.	7740	4/29/85	55	24.6	28.4	4.3
TIMBER CREEK	7950	4/28/85	0	0	8.7	28.4
TOCHOTE PASS	9580	4/30/85	56	22.0	30.4	4.3
TOCHOTE PASS SNOTEL	9580	5/01/85	---	19.9	26.5	33.8
TOHNSEND CREEK	8700	5/02/85	0	0E	15.5	---
TOHNSEND CRK SNOTEL	8700	5/01/85	---	4.1	15.9	---
TRIPLE PEAKS	8500	4/30/85	44	20.6	25.2	---
TROUT CREEK SNOTEL	8400	5/01/85	---	3.7	8.9	27.4
TRIO OCEAN SNOTEL	9160	5/01/85	---	28.4	26.8	---
TYRELL RANGER STA.	8300	4/25/85	12	3.0	7.3	9.2
WARREN PEAK	6520	4/29/85	0	0	15.3	7.0
WARREN PEAK SNOTEL	6520	5/01/85	---	0	---	---
WEBBER SPRING	9250	4/25/85	44	18.2	29.1	20.7
WEBBER SPRING SNOTEL	9250	4/30/85	---	22.2	28.4	---
WHISKEY CREEK	8950	4/29/85	70	30.2	35.1	---
WILLOW CRK SNOTEL WY	8050	5/01/85	---	21.0	42.6	---
WINDY PEAK SNOTEL	7900	4/30/85	---	0	12.4	---
WOLVERINE	7650	4/29/85	14	4.6	6.5	11.6
WOLVERINE SNOTEL	7650	5/01/85	---	3.2	6.1	---
WOOD ROCK C.S.	8440	4/29/85	34	9.9	14.8	13.7
YOUNTS PEAK	8350	4/30/85	33	10.0	---	---

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
COLORADO						
CAMERON PASS	10300	4/30/85	72	30.0	34.4	32.1
CHAMBERS LAKE	9000	4/30/85	2	0.7	9.2	6.8
COLUMBINE LODGE	9300	4/26/85	47	20.1	26.6	21.6
DEADMAN HILL	10200	5/01/85	51	17.7E	22.6	18.0
ELK RIVER #2	8600	4/25/85	40	14.9	21.5	16.7
GRAND LAKE	8600	4/25/85	18	5.7	9.9	5.8
JOE HRSHT	10000	4/30/85	70	28.0	35.8	28.7
MCINTYRE	9100	4/28/85	26	8.0	14.9	10.8
NORTHGATE	8500	4/23/85	16	4.1	10.3	4.3
RABBIT EARS	9550	4/26/85	76	39.0	37.0	28.0
PARK VIEW	9200	4/23/85	25	7.2	13.6	7.2
TOWER	10000	4/30/85	129	56.9	66.4	56.3
ROACH	9400	4/28/85	64	20.5	25.7	20.4
WILLOW CREEK PASS	9500	4/23/85	36	11.0	18.8	11.7
IDAHO						
DARBY CANYON	8250	4/29/85	52	21.8	28.1	23.2
FREDS MOUNTAIN	8000	5/01/85	---	21.7E	21.8	25.4
INDIAN MEADOWS	8420	4/29/85	70	33.3	43.4	38.8
JACKPINE CREEK	7350	4/29/85	40	18.5	23.2	21.7
MONTANA						
BLACK BEAR	7950	4/26/85	90	39.6	40.4	44.8
BLACK BEAR BUTYL	7950	5/01/85	---	35.2	36.9	38.8
COOKE STATION	8150	4/30/85	42	16.2	16.6	22.2
FISHER CREEK	9100	4/30/85	79	32.1	34.4	44.5
FISHER CREEK BUTYL	9100	5/01/85	---	28.1	31.4	40.7
MADISON PLATEAU	7750	4/25/85	59	15.6	21.8	23.6
NORTHEAST ENTRANCE	7350	4/30/85	4	1.6	4.1	7.3
N.E. ENTRANCE BUTYL	7350	5/01/85	---	1.0	5.5	5.3
TWENTY-ONE MILE	7150	5/02/85	20	7.6	12.9	17.2
WEST YELLOWSTONE	6700	5/02/85	13	5.0	7.5	8.3
WEST YELL ST BUTYL	6700	5/02/85	---	3.2	6.4	6.9
WHITE HILL	8700	4/30/85	58	23.1	24.3	31.5
WHITE HILL BUTYL	8700	5/01/85	---	22.8	21.9	27.1
UTAH						
BLACK'S FORK	9200	4/26/85	15	4.7	20.8	11.7
BLACK'S FORK JUNCTN	8930	4/26/85	16	3.7	11.8	8.3
BURT S-KILLER RANCH	7900	4/26/85	2	0.4	4.3	2.4
HAYDEN FORK	9400	4/26/85	30	10.7	18.2	16.2
HEMIMA G.S.	9500	4/26/85	25	7.1	13.6	10.1
HICKERSON PARK	9100	4/26/85	29	3.8	13.3	6.1
MONTE CRISTO R.S.	8960	4/25/85	51	20.1	29.8	26.8
SPIRIT LAKE	10300	4/26/85	51	11.4	18.2	15.6
STEEL CREEK PARK	10100	4/26/85	58	16.6	22.5	18.5
STILLWATER CAMP	8550	4/26/85	9	2.6	10.6	8.4
TALAL LAKE	9960	4/26/85	54	23.2	31.7	26.1

THE FOLLOWING ORGANIZATIONS COOPERATE
WITH THE SOIL CONSERVATION SERVICE
IN SNOW SURVEY WORK

State

Conservation Districts of Wyoming
State Engineer of Wyoming
Department of Water Resources of Nebraska
Irrigation Districts of Wyoming
University of Wyoming
 Department of Atmospheric Resources
 Department of Agricultural Engineering

Federal

U.S. Department of Agriculture
 Soil Conservation Service
 Forest Service

U.S. Department of Commerce
 NOAA, National Weather Service

U.S. Department of Interior
 Bureau of Reclamation
 Geological Survey
 National Park Service
 Bureau of Indian Affairs
 Bureau of Land Management

Private

Utah Power and Light Company
Eden Valley Irrigation District

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.